



Curriculum Vitae

1	Applicant:			Dr. V. Shakunthala	
2	Position held			Professor and Chairperson	
3	Sex			Female	
4	Address for Communication			DOS in Zoology Manasagangotri, Mysore-6	
5	Affiliation			University of Mysore	
6	Email			vshaku@yahoo.com	
5	Whether the institution in which the applicant is working is recognized as a research centre in the subject			Yes	
7	Education Qualifications Specify degree, year of passing, class/grade)			Under graduate: BSc., 1989 Ist Class Post graduate: MSc., Zoology, 1990 I class Ph.D in Zoology: 2000	
8	Teaching/Research experience (mention number of years, level) (attach copies of relevant documents)			Research experience 14 years Teaching, Zoology and Genetics MSc., Students. 14	
9	Whether applicant is a member of BOS in the subject			Member, BOS and BOE DOS in Zoology University of Mysore, Karnatak University, Kuvempu University	
10	Number of publications:			36	
Title of Article	Name of Journal/Publisher	National/International	Year	Page No.	Authors in the order of appearance in the article/book

Academic position held

Sl. No.	Member of the different Academic bodies	Department /University
1	Member of Faculty of Science during 2009-210, 2017-18	University of Mysore
2	Member Board of Examination	Molecular Biology, Integrated course, Yuvarj's College, Mysuru, 2017, 2018, 2018-19
3	Member Board of Examination	DOS in Genetics and Genomics, MGM, 207 and 2018
4	Member Board of Examination	DOS in Zoology, MGM, 2017-18
5	Member. BOE	DOS in Zoology, MGM, 2020-21
6	Member Board of Examination	DOS in Applied Genetics, Karnatak University, Dharward, 2018,
7	Member Board of Examination	DOS in Biological Science, Bangalore University, Bengaluru
	Member Board of Examination	DOS in Applied Zoology, Kuvempu University , Shankar ghatta, 2017-18
7	Member Board of Studies 2015-16-2017-18	Govt. Science College, Bengaluru
8	Member Board of Examination	DOS in Zoology, Bangalore University, Bengaluru (UG)
9.	Member Board of Examination	DOS in Applied Zoology, Mangalore University, Mangalore (PG)
10	Executive committee member, Indian Society for chronobiology 2017-20	Indian Society for chronobiology New Delhi.,
11	Member, BOE,	Department of Studies in Applied Genetics, Bangalore University, Bengaluru, 2015-16
12	Member Board of Examinations VIII Semseter, MSc.,	Molecular biology course, Yuvaraj's College, Mysuru 2017-18
13	Member, Faculty of Science, University of Mysore	University of Mysore 2017-18 and 2018-2020
14	Ph.D Co-ordinator, Department of Studies in Zoology 2015-16	DOS in Genetics and Genomics 206-17
15	Observer, UGC-CSIR-NET, University of Mysore	2018 University of Mysore
16	Master Trainer, Vidhana Sabha Elections 2018	Chamundeswari ward, Mysuru
17	Member , National advisory committee,	International conference on chronobiology" CC University, Meerut March 11-13, 2018
18	Master Trainer, Lok Sabha election 2019 (worked in mastering, demustering, electoral machine setting duties)	Chamundeswari ward, Mysuru 2019
19	Squad/observer UGC-NET exams 2020 organized by University of Mysore	visited to all exam centers January 2020
20	Worked as observer for the NEET examinations 2018 held on Kendriya Vidyalaya, Mysuru. 6 th May 2018	Kendriya vidyalya
21	Liaison officer, IQAC, University of	Involved in NAAC assessment preparation

	Mysore	
22	E- attestation officer , Statistical cell,	University of Mysore, 2021-22
23	Student Co-ordinator, DOS in zoology	DOS in Zoology, MGM
24	Chairperson, BOS in Genetics and Genomics	University of Mysore, Mysore 2020-23 or further order
25	Member, Governing Council , JSS college, Chamarjanagar	Attended meeting
26	Member Science and Technology, University of Mysore 2019-21	Department of Studies in Genetics and Genomics Attended Meeting held on 8 th Feb 2021

SL no.	Details of the Webinar programme organized from the Department of Studies in Zoology 4th July to 30th July 2020)	
	Title of the Speech and date	Speaker
1	Molecular diagnostic methods for identification of Genetics disorders (4/7/2020)	Dr. Usha Dutta, Geneticists, CDFD, Hyderabad
2	Biotechnological tools in Biodiversity conservation (11/7/2020)	Dr. Govindaswamy Umapathy CSIR Centre for cellular and Molecular Biology) Hyderabad
3	The keys are consistency and curiosity (12/7/2020)	Dr. Lilly Eluvathingal Linden Instructional and research specialists for the sciences, occidental college, Loss Angeles, California
4	Methods in stem cell isolation and culture	Dr. Kanagaraj Palaniyandi, Assistant Professor DST-SERB project Principal Invetigator Cancer SRM Insitute of Sciences and Technology.
5	Panel Discussion “Covid-19” 18/7/2020 Penalists	Prof. Hemanth Kumar Dr. M.N. Rajendra Prasad Nodal officer in Covid-19 Management, Special DC in NHAH Government of Karnataka Prof. P Venkataramaiah Former Vice-Chancellor, KuvempuUniversity, DESS Chairman, University of

		Mysore, Mysore Dr. T.S. Stynarayana Rao, Professor, Department of Psychiatry, JSS medical College, AHER, Mysore
6	Beyond the Stripes save our Tiger, Save our Pride	Shri Balachandra, IFS Conservator and Director Bandipur Tiger Reserve
7	Research Careen Biological Sciences (21/7/2020)	Prof. N.B. Ramachandra
8	Research Careen Biological Sciences (22/7/2020)	Dr.S.V.Krishnamurthy Professor, Department of Environmental Sciences, Kuvempu university,
9	Research Careen Biological Sciences (23/7/2020)	Dr. Cletus D'souza, Former Professor and Chairman Departmtne of Studies in Biochemosty, University of Mysore
10	Research Careen Biological Sciences (24/7/2020)	Dr. Amrutha valli. C Associate Professor, DOS in genetics and Genomics, University of Mysore, Mysru
11	Peel in to Bird Around Us (25/7/2020)	Shri.Vijaya Mohan Raj, IFS
12	Phytotherapy that makes the bone happy (26/7/2020)	Dr.R. Ilangovan Assisitant Professor Department of Endocrinology. Dr. ALM Insititute of Basic medical sciences, University of Madras, Taramani Campus, Chennai.
13	Wildlife conservation	B.S. Krupakar and K. Senani Wildlife Photographers and film makers
14	International Tiger Day	Prof. G. Hemanth Kumar Hon'ble Vice Chancellor,

		UOM Prof. R. Shivappa, Honourable Registrar, UOM Shri. T. Balachandra, IFS Conservator and Director Bandipur Tiger Reserve

Book Chapters (Published by Indian Academy of Science) In the Book: Experiments with *Drosophila* for Biology courses, Edited by Prof. S.C. Lakhotia and Prof. H.A. Ranganath

SI No.	Year	Title of the Chapter (ISBN NO. 978-81-950664-2-1)	Page No.
1	2021	V. Shakunthala Chapter: 77: Collection and identification of <i>Drosophila</i> flies	517-521
2	2021	V. Shakunthala Chapter 78: Comparison of some life history traits in sympatric <i>Drosophila</i> species	523-526
3	2021	V. Shakunthala Chapter 79: To estimate competitive fitness of <i>Drosophila</i> species	527-530
4	2021	Chapter 3: Ranganath H.A. and V. Shakunthala Familiarization with a few mutant phenotypes of <i>Drosophila melanogaster</i>	57-58

List of publications

Sl No.	Year of publications	Publications
1	1999	Hegde S.N. V.Vasudev, M.S. Krishna and V. Shakunthala. 1999. Description of two new species of <i>montium</i> subgroup of <i>Drosophila</i> (Diptera: Drosophilidae) from South India, Entomon
2	2007	Shakunthala, V and H. A. Ranganath, 2007. Localization and characterization of heterochromatin of four species of the <i>montium</i> subgroup of <i>Drosophila</i> . Cytologia 72(3):279-286. (IF- 0.43) ,
3	2009	Shereen Kouser and Shakunthala.V 2009. Analysis of morphometric traits among few species of <i>Drosophila</i> .. ' Drosophila Information Service, 92 : 111-114. (international)
4	2009	Abolfazl Bayrami M. and V. Shakunthala 2009 Viewpoint on the Application of Molecular Genetics to Shrimps Biology and Systematics. Proceedings of International Multi-diciplinary Conference on “Current Research Trends” : 320-324. (International conference proceedings)
5	2010	Abolfazl Bayrami M, V. Shakunthala and S. R. Ramesh. 2010. Enzyme Electrophoresis in Shrimps by polyacrylamide Gel for Phylogeny: A Practical guide. Modern Applied Science vol.4: 96-102. (international)
6	2011	Abolfazl Bayrami M, V. Shakunthala, Molecular systematic of some shrimpss (Crustacea, Decapoda) based on allozyme data. Research journal of fisheries and hydrobiology, 2010, vol 4, No. 6, pp. 322-328 . (International)
7	2010	Shereen K, Palaksha, Shakunthala V. 2010. Does constant darkness reduce fitness in <i>Drosophila</i> ? myScience. 1:1-8. (National)
8	2010	Shereen Kouser and V. Shakunthala 2010, “Study of fitness in a few species of <i>Drosophila</i> (Dipterans)” published proceeding in 3 rd National Women’s Science Congress held on 8 th -10 th November 2010, at Shivagangotri, Davangere. (National)
9	2010	Deepti. V and Shakunthala.V . 2010. Genotoxic effect of drug Progynova on fitness of <i>Drosophila melanogaster</i> . Drosophila Information Service, 61-67. (International)
10	2011	Abolfazl Bayrami M and V. Shakunthala 2011. Molecular phylogenetic analysis of a few Penaiedae species (Crustacea, Decapoda) using RAPD. Russian Journal of Marine Biology. 61: 455-461. (IF-0.294) (CI-8.5). (International)
11	2011	Palaksha, Shereen Kouser, Shakunthala V. 2011. Circadian rhythm of locomotor behavior of <i>D. agumbensis</i> and <i>D. rajasekari</i> collected from

		Sakleshpur. <i>Drosophila</i> Information Service 94:86-89. (International)
12	2012	Palaksha, Shereen K, Shakunthala V. 2012. "Variation in locomotor behaviour of <i>Drosophila bipectinata</i> and <i>Drosophila malerkotliana</i> with altitude". Biological Rhythm Research. 43:285-292. (IF-0.756) (International)
13	2011	Shereen Kouser and V. Shakunthala 2011. Locomotor Behaviour of <i>Drosophila melanogaster</i> in different light regimes published proceeding in 4 th National Women's Science Congress held on 7 th -8 th November 2011, at M.S. Ramaiah Engineering College, Bangalore. (Proceedings)
14	2012	Palaksha, Shereen K, Shakunthala V. 2012. "Variation in locomotor behaviour of <i>Drosophila bipectinata</i> and <i>Drosophila malerkotliana</i> with altitude". Biological Rhythm Research. 43:285-292. (IF-0.756) (International)
15	2012	Shereen Kouser, Palaksha, Shakunthala V. 2012 "Adaptive Significance of Circadian Rhythms of <i>montium</i> a subgroup of <i>Drosophila</i> : I - Locomotor Behaviour" Biological Rhythm Research. 1-16 (IF-0.756) (International)
16	2013	Palaksha, Shereen Kouser & V. Shakunthala (2013) Circadian regulation of oviposition rhythm in <i>Drosophila agumbensis</i> and <i>Drosophila nagarholensis</i> (Diptera), Biological Rhythm Research, 44:2, 325-332. (IF-0.756) (CI-7.3) . (Internation DOI: 10.1080/09291016.2012.681849a)
17	2013	Shereen Kouser and V. Shakunthala. 2013. Eclosion behaviour of three species of <i>Drosophila</i> under different light regimes accepted in Indian Journal of experimental biology. (IF- 1.295) (National)
18	2014	Shereen Kouser and V. Shakunthala 2014. Effect of different light regimes on esterase isozyme profiles of three species of <i>Drosophila</i> . Frontiers in Life Science Vol 7. :148-154. (IF-1.4) (International) http://dx.doi.org/10.1080/21553769.2013.867417
19	2014	Suchitra G and V. Shakunthala 2014. Effect of <i>Glycyrrhiza glabra</i> root extract on behaviour and fitness of <i>Drosophila melanogaster</i> and vestigial wing mutant. International Journal of Current Microbiology and Applied Sciences Vol. 3:7:1047-1054 (National)
20	2014	Suchitra G, Palaksha and V. Shakunthala 2014. Effect of <i>Mucuna pruriens</i> seed extract on behaviour and fitness of <i>Drosophila melanogaster</i> . International Journal of Current Research. Vol.6:07:7365-7365. (IF=3.2)
21	2014	Palaksha, Suchitra, G and V Shakunthala Effect of different light regimes on

		fitness of <i>Drosophila agumbensis</i> and <i>Drosophila nagarholensis</i> . International Journal of Current Microbiology and Applied Sciences. Vol. 3: 10:326-335.
22	2014	Shakunthala.V , Zahra Ghayour Najafabadi and Sathisha B, 2014, Effect of Amitriptyline hydrochloride an antidepressant on courtship and reproducibility of <i>D. melanogaster</i> . International J. of curr. Microbiology and applied science 12(3): 649-656. (IF=1.6) (International)
23	2015	Suhitra, G Palaksha and V. Shakunthala 2015. Effect of <i>Mucuna pruriens</i> seed and <i>Glycyrrhiza glabra</i> root extract on longevity of <i>Drosophila melanogaster</i> and vestigial wing mutant. International Journal of Advanced Research (2015), Volume 3, Issue 1, 74-80 (National)
24	2015	Palaksha, Suchitra and V. Shakunthala 2015. Effect of different photoperiods on oviposition and eclosion rhythm of <i>Drosophila agumbensis</i> and <i>Drosophila nagarholensis</i> (National)
25	2015	Shereen Kouser, Shakunthala.V and S. N. Hegde 2015, Effect of different light regimes on fitness of two species of <i>Drosophila montium</i> subgroup Biological Rhythm Research. Taylor and Francis. DOI: 10.1080/09291016.2015.1015233 (International)
26	2015	Stafny D Souza and Shakunthala.V . 2015. Combined effect of Lead acetate and Zinc chloride on the Fitness of <i>Drosophila melanogaster</i> . IJAR vol 3 : 1054-1064 (National)
27	2015	Palaksha and Shakunthala. V . 2015. Variations in the esterase expression pattern with respect to different light regimes in <i>Drosophila agumbensis</i> and <i>Drosophila nagarholensis</i> . <i>Biological Rhythm Research</i> . DOI: 10.1080/09291016.2015.1026677 (International) Taylor and Francis
28	2017	Shakunthala. V and Shalini H. K. 2017. Combined effect of heavy metals on longevity of <i>Drosophila melanogaster</i> International journal of science and Research (IJSR) Vol. 7 (8): 1315-1318 IF=0.7
29	2019	Alwyn D souza and Shakunthala V , Seasonality of Suicidal Behaviour in Mysuru, Karnataka, India: A Population Based Analysis. Malaysian Journal of psychiatry on line early. Vol 28 No. 2 2019
30	2019	Sajej Mohamad Q. A and V. Shakunthala.V 2019. Effect of Melatonin and Time Restricted Feeding in the Diabetic Rats. International Journal of Scientific research and reviews .IJSRR 2019, 8(1), 1436-1449
31	2019	Shakunthala.V and B. P. Paramesh. Combined Effect of Heavy Metal Pollution on Oviposition Rhythm of <i>Drosophila Melanogaster</i>
32	2019	Alwyn D souza and Manjunatha and Shakunthala.V 2019. Impact of geographical elevations on ecodistributional pattern of <i>Drosophila</i> (diptera)

		species in four different ecosystems of Karnataka India. International Journal of Entomology Research. Vol 4 (3):1-8.
33	2019	Shakunthala.V and B. P. Paramesh, 2018. Effect of Zinc Chloride and Lead Acetate on the Oviposition Preference of <i>D. melanogaster</i> . International Journal of Environment and Human health 2019, 1(3) , 74-77. Green trust. Publication.
34	2020	Megha Urs T. S. Alwyn D'Souza Shakunthala.V and Channaveerappa H Morphometric geometry study on wings of grasshoppers reflect more evolutionary flexibility in hind wings. International Journal of Pharma and Bio Sciences ijpbs vol1 No.4 (October) 2020pp b96-106.
35	2020	Ramanujam Karthikeyan Danel Cardinali Shakunthala V , David Warren Spence, Gregory M. Brown and SR. Pandi-perumal 2020 Understanding the role of sleep and its disturbances in Autism spectrum disorder” International Journal of Neuroscience, Taylor and Francis (Review article)
36	2021	Alwyn D'souza1, Anjana S2, Sunitha MB3, Hemavathi R4, Shakunthala.V Efficacy of two non-nutritive sugars on overall fitness of <i>Drosophila melanogaster</i> : I-a comparative study
37	2022	Manjunath M, Shakunthala.V Diversifying selection in aly, bam, dj and topi genes: Association between Rapid divergence and Hybrid male sterility in <i>Drosophila bipectinata</i>
38	2022	Alwyn D'souza1, Maghana A, Channaveerappa H, Shakunthala.V Mandibles of twenty species of short horned grasshoppers (Orthoptera: Caelifera) have variations among different species.
39	2022	Deekshitha A, Gazala Hussain, Shakunthala.V Effect of gandhaka as rasayana in the life span of <i>Drosophila melanogaster</i> .
40	2022	Colour morphism in <i>Acrida exaltata</i> and <i>Acrida gigantea</i> on par with seasonal changes in the habitat background.
41	2022	Does Time restriction feeding reverse the High fat diet induced obesity in <i>Drosophila melanogaster</i> ?
42	2023	Diversifying selection in aly, bam, dj and topi genes: Association between Rapid divergence and Hybrid male sterility in <i>Drosophila bipectinata</i>
43	2024	Chaithra Bhoomi Rakkhiths D K, Shakunthala.V The effects of Terminalia chebula on Resistance to Hydrogen Peroxide Induced Oxidative Stress in <i>Drosophila melanogaster</i> .
44	2024	Sneha R Rao, G Pavthra, Shrinidhi G Galabi, Gunavathi N L, Soundarya K L, Shakunthala.V A comparative study of effect of stevia rebaudiana pure and crude leaf powder on the starvation resistance of <i>Drosophila melanogaster</i> .
45	2024	Sneha R Rao, Shrinidhi G Galabi, G pavithra, Gunavathi N L, Soundarya K L, Shakunthala.V Effects of stevia rebaudiana pure and crude leaf powder on the pupation site preference of <i>Drosophila melanogaster</i> .
46	2024	K Rakshitha, Shakunthala.V Behavioral response of <i>Drosophila melanogaster</i> to piper longum: A study on pupation site preference

47	2024	K Rakshitha, Shakunthala.V The impact of piper longum on Sex Ratio in <i>Drosophila melanogaster</i> : An Experimental Study
48	2024	Chaithra Bhoomi Rakkhitha D K, Shakunthala.V The Effect of Terminalia chebula (Haritaki) on starvation resistance in <i>Drosophila melanogaster</i>
49	2025	C S Damini, Shakunthala.V Association of sleep and feeding time in diet-induced obesity <i>Drosophila melanogaster</i>
50	2025	Saraswathi Y S, Shakunthala.V Ameliorative effect of Bacoap monnieri on neuromuscular coordination in a30p a-synuclein transgenic <i>Drosophila melanogaster</i> .
51	2025	Shravani MNR, S Priyanka Rani, Sinchana M, Tanuja N, Sindhu K, Shakunthala.V Neurprotective role of vitamin C against lead – induced impairments in engative geotaxis of <i>Drosophila melanogaster</i>
52	2025	Shravani MNR, S Priyanka Rani, Sinchana M, Tanuja N, Sindhu K, Shakunthala.V Laed acetate indced neurotoxicity in <i>Drosophila mel;anogaster</i> larvae: Protective role of vitamin C in a crawling assay.
53	2025	Nandini, Hemanth Kumar S, Damini C S, Shakunthala.V Chronic exposure to lead acetate affect cognition in <i>Drosophila melanogaster larvae</i>
54	2025	Shree lakshmi K, Yashaswini, Shalini K S, Mehek Naaz, Shakunthala.V Assessment of crawling activity in <i>Drosophila melanogaster</i> larvae exposed to zin chloride and vitamin C
55	2025	Manjunath M, Alwyn Dsouza, Damini C S, Shakunthala.V Beyond hybrid sterility : Direct selection and prezygotic barriers in the apéciation paradigm of <i>Drosophila bipectinata</i> sepecies complex
56	2025	Tanuja N, Sinchana M, Shravani MNR, S Priyanka Rani, Sindhu K, Shakunthala.V Toxicological impact of lead acetate on the development and viability of <i>Drosophila melanogaster</i> and the protective role of vitamin C
57	2025	Sinchana M, Tanuja N, Shravani MNR, S Priyanka Rani, Sindhu K, Shakunthala.V Protective role of vitamin C against lead acetate- induced longevity reduction in <i>Drosopila melanogaster</i>
58	2025	Yashaswini P, Shalini K S, Shree Lakshmi K, Mehek Naaz, Shakunthala.V Impact of zinc chloride and vitamin C on thermal and nutritional stress resistance in <i>Drosophila melanogaster</i> : Assessment of cold resistance, Heat resistance and starvation resisitance.
59	2025	Mehek Naaz, Yashaswini P, Shalini K S, Shree Lakshmi K, Shakunthala.V Effect of chronic zinc chloride exposure on climbing ability in <i>Drosophila melanogaster</i> and its Modulation by Vitamin C
60	2025	Shalini K S, Yashaswini P, Shree Lakshmi K, Mehek Naaz, Shakunthala.V Analyzing the impact of zinc chloride and vitamin c on olfactory

		Behaviour in <i>Drosophila melanogaster</i> Larvae
61	2025	Marilyn Soosi M, Navyashree L S, Nisarga M, Priyadharshini M, Shakunthala.V Toxicological effects on acute exposure of zinc chloride and synthetic antioxidant BHA on crawling behavior of <i>Drosophila melanogaster</i> .
62	2025	Ruthu R N, Manoj P B, Saraswathi Y S, Shakunthala.V Evaluation of larval crawling behavior in <i>Drosophila melanogaster</i> exposed to lead acetate and treated with antioxidant BHA
63	2025	Sahana Savappla Anand, Sanjana Shajan, Neerkaje Subrayabhat Devaki, Honnagondanahally Channaveerappa, Shakunthala.V Evaluation of larval crawling behavior in <i>Drosophila melanogaster</i> exposed to lead acetate and treated with antioxidant BHA
64	2025	Manoj P B, Ruthu R N, Saraswathi Y S, Shakunthala.V Assessment of locomotor deficits in <i>Drosophila melanogaster</i> treated with lead acetate and it was rescued by butylated hydroxyanisole
65	2025	Sahana Savappla Anand, Sanjana Shajan, Neerkaje Subrayabhat Devaki, Honnagondanahally Channaveerappa, Shakunthala.V The extraction and characterization of chitin and chitosan from six species of beetles: Demonstrate that beetles are a valuable source of these biopolymers
66	2025	M Manjunath, C S Damini, Shakunthala.V Cis-regulatory divergence and misexpression of spermatogenesis genes underlie hybrid male sterility in the <i>Drosophila</i> bipectinata species complex
67	2025	Damini C S, Sri Vidya M, M Manjunatha, Shakunthala.V Restoration of circadian rhythm mitigates high-fat diet-induced obesity via time-restricted feeding in <i>Drosophila melanogaster</i>
68	2026	M. Manjunath, V S. Raviraj, C S Damini, V Shakunthala PhyloSpect: a spectral operator framework for detecting episodic selection in codon evolution Publisher: Elsevier, Molecular Phylogenetics and Evolution
68	2026	Dinesh Udapi, Channaveerappa H and Shakunthala V Codon position-specific nucleotide bias and saturation in mitochondrial cytochrome oxidase subunit I of <i>Poekilocerus pictus</i> Publisher: Acta Entomology and Zoology, Printed Journal ISSN:2708-0021
69	2026	Dinesh Udapi, Channaveerappa H and Shakunthala V Assessment of Caelifera (Orthoptera) Representation in BOLD Systems: A DNA Barcode Gap Analysis with Emphasis on India.
70	2026	Dinesh Udapi, Channaveerappa H and Shakunthala V Molecular characterization of mitochondrial genes of <i>Pyrgomorpha bispinosa</i> Waler, 1870 (Orthoptera: Pyrgomorphidae) from Karnataka, India and phylogenetic analysis of family Pyrgomorphidae.
Research Project Completed and on going		
1	2013	Principal Investigator: Major Projects “Adaptive Significance of Circadian rhythm in a few species of <i>montium</i> a subgroup of <i>Drosophila</i> ” Funded by UGC (8.9 lakh) 2009-2012 (completed)

2.	2013-till date	Projects to the Department of Studies in Zoology (co-investigator) Co-Principal Investigator Funds : approximately 2 crores UGC-SAP-Phase-II, compelted UGC-SAP- phase-III (completed) and UGC-SAP CAS (centre for Advanced Studies) Projects. Ongoing					
3	2017	Principal Investigator: 1 (1 lakh) Impact of clock proteins on the seasonal regulation of <i>Drosophila melanogater</i> completed					
No. of Ph.D. successfully guided and working at present							
		<table><tr><td>No. of Ph.D awarded</td><td>No. of Ph.D students working presently</td></tr><tr><td>Four</td><td>six</td></tr></table>		No. of Ph.D awarded	No. of Ph.D students working presently	Four	six
No. of Ph.D awarded	No. of Ph.D students working presently						
Four	six						
		Ph. D thesis evaluated (other universities outside Karnataka)					
2016		Miss Khairmode Shilpa Prakash “ Salivaridadenectomy effect on thymus gland and thymocytes of Mice (Mus musculus)” Thesis Shivaji University, Kolhapur Maharashtra, India					
2021		Ms. Prathiksha Suresh Bandare “ Studies on some invertebrate diversity of aquatic ecosystems from Palus tahsil dist. Sangli (M.S) India. Shivaji University Kolhapur					
		Seminars and conferences participated/ presented papers					
1	2008	Shakunthala. V and H. A. Ranganath, 2008. Ecological divergence among four species of the <i>montium</i> subgroup of <i>Drosophila</i> : Resource utilization divergence Fifth Drosophila Meeting 28th-29 th March Department of Studies in Zoology.					
2	2008	Shakunthala V., Shereen Kouser, Prathiksha Bhat and Shivabasavaiah. 2008.Genotoxic effect of B-estrodinol on <i>Drosophila melanogaster</i> . Fifth Drosophila Meeting 28 th -29 th March Department of Studies in Zoology.					
3	2009	Abolfazl Bayrami M and Shakunthala.V 2009. Viewpoint on the Application of Molecular Genetics to Shrimps Biology and systematics. Presented in First International Multi-disciplinary Conference on Current Research Trends 20 th -21 st November, 2009.Organized by University of Mysore, Irnian student Union.					
4	2010	Shereen Kouser, Palaksha and V. Shakunthala 2010, Does constant darkness reduce fitness in <i>Drosophila</i> presented (Oral) in Sixth <i>Drosophila</i> Meeting held on 19 th -20 th November 2010 at Department of Studies in Zoology, University of Mysore,					

		Manasagangotri, Mysore-06
5	2010	Shereen Kouser and V. Shakunthala: 2010 . “Ecllosion Behavior and fitness studies in <i>D. melanogaster</i> in an aperiodic environment” appeared in National Symposium on Animal Biodiversity: Physiological aspects of environmental strategies held on 19 th -20 th February 2010 in Department of Zoology, M.M.H (P.G.) College Model Town, Ghaziabad- 201 009, New Delhi.
6	2011	Shereen Kouser and V. Shakunthala 2010 , “Study of fitness in a few species of <i>Drosophila</i> (Dipterans)” presented (Oral) in 3 rd National Women’s Science Congress held on 8 th -10 th November 2010, at Shivagangotri, Davangere
7	2010	Palaksha and V. Shakunthala, 2010 . Population rhythm among two species of <i>montium</i> subgroup of <i>Drosophila</i> (diptera). Abstract appeared in XXI National Symposium on Chronobiology held at Jamshedpur Co-operative college, Jameshedpur.
8	2010	Palaksha, Shereen Kouser and V. Shakunthala 2010 , “Altitudinal Variation in the circadian locomotor activity rhythm of <i>D.bipectinata</i> and <i>D.malerkotliana</i> ” presented (Oral) in Sixth <i>Drosophila</i> Meeting held on 19 th - 20 th November 2010 at Department of Studies in Zoology, University of Mysore, Manasagangotri, Mysore-06.
9	2010	Deepti. V and V. Shakunthala 2010 . Genotoxic effect of primolut-N and Progynova on fitness parameters of <i>Drosophila melanogaster</i> . Presented in National Conference on ‘Recent trends in animal physiology’ held on 29 th -30 th October 2009 at Department of Studies in Zoology, Manasagangotri, Mysore-6.
10	2011	Shereen Kouser and V. Shakunthala 2011 , “Adaptive Significance of Circadian Rhythms of <i>Drosophila melanogaster</i> : Locomotor behaviour” appeared in 4 th National Women’s Science Congress held on 7 th -8 th November 2011, at M.S. Ramaiah Engineering College, Bangalore.
11	2012	Shereen Kouser, Palaksha and V. Shakunthala 2012 , “Adaptive Significance of Circadian Rhythms of <i>montium</i> a subgroup of <i>Drosophila</i> : I - Locomotor Behaviour” presented (Poster) in National Seminar on “Advances in Zoology and Life Processes” held on February 9 th -11 th , 2012 at Goa University, Taleigao Plateau, Goa-403206.
12	2012	Palaksha, Shereen Kouser and V. Shakunthala 2012 , “Circadian regulation of

		oviposition Rhythm in <i>Drosophila agumbensis</i> and <i>Drosophila nagarholensis</i> (Diptera)” presented (Poster) in National Seminar on “Advances in Zoology and Life Processes” held on February 9 th -11 th , 2012 at Goa University, Taleigao Plateau, Goa-403206
13	2012	Shereen Kouser and V. Shakunthala , 2012, “Eclosion behaviour in three species of <i>Drosophila</i> under different light regimes.” (Oral) in National Conference on “New Frontiers in Animal Science” held on April 9 th -10 th , 2012 at Kuvempu University, Jnana Sahyadri, Shankaraghatta-577 451, Shivamogga, Karnataka.
14	2014	Shereen Kouser and V. Shakunthala . 2014. National conference on innovations in Science and Technology for Inclusive development. Held in Department of Studies in Zoology in association with India Science Congress: Bangalore Chapter. On 2 nd and 3 rd February 2014.
15	2014	Palaksha and V. Shakunthala 2014 National conference on innovations in Science and Technology for Inclusive development. Held in Department of Studies in Zoology in association with India Science Congress: Bangalore Chapter. On 2 nd and 3 rd February 2014
16	2014	Suchitra.G and V. Shakunthala 2014 Effect of <i>Mucuna pruriens</i> seed extract on behaviour and fitness of <i>Drosophila melanogaster</i> .National conference on innovations in Science and Technology for Inclusive development. Held in Department of Studies in Zoology in association with Indian Science Congress: Bangalore Chapter. On 2 nd and 3 rd February 2014.
17	2015	Suchitra and V. Shakunthala , 2015 Aphrodisiac property of <i>Mucuna pruriens</i> seed extract on behaviour and fitness of <i>Drosophila melanogaster</i> . Karnataka state Science and Technology “ Held in JSS College of Science and Commerce, Ooty Road., Mysore.
18	2014	Invited talk Shakunthala.V. 2014. Adaptive significance of Circadian rhythms in few species of the <i>montium</i> a subgroup of <i>Drosophila</i> presented in Drosophila Meeting held in BHU. Varanasi on 12-15 th March 2014
19	2013	Shakunthala V. 2013. Participated in National symposium on Cancer Biology held on 29 th and 30 th Nov. 2013 at Department of Studies in Biochemistry , University of Mysore, Mysore.

20	2014	Shakunthala.V 2014 Participated in 10 th kannada vignana sammelana, One of the organizing committee and chaired two sessions. Held in University of Mysore, Mysore on 15 th to 17 th 2014.
21	2015	Shakunthala .V and Stafny D Souza, 2015. Combined effect of Lead acetate and Zinc chloride on the Fitness of <i>Drosophila melanogaster</i> . The paper presented in 25 th National conference in Chronobiology: Time and medicine. Held in Pt. Ravishankar Shukla University, Raipur.
22	2016	Delivered Talk in IndoUS Workshop & Internatinal Symposium organized by IUSSTF and Indian chronobiology Society on 2-5nd 5 th March 2016
23	2016	Delivered Invited talk in the 26 th National symposium on Chronobiology held in the Department of Studies in Zoology, Manasagangotri, from 2 nd to 3 rd June 2016.
24	2017	Delivered invited talk in National symposium on “Cytogenetics to Genomics held on 27 th October 2017 at Government Science College (Autonomou) Hassan Karnataka.
25	2016	Delivered invited talk on “Biological rhythms and fitness” in the National conference on chronobiology held on 2 nd and 3 rd June 2016 at Department of Studies in Zoology, Manasagangotri, Mysore-6.
26	2018	Delivered Invited talk in the National Workshop on <i>Drosophila</i> for life science” held at Drosophila Stock centre, DOS in Zoology, Manasagangotri, Mysore-6
27	2018	Delivered Invited talk at CSIR-CFTRI student’s symposium”Advances in Biological Research”on 13 th July 2018 organized by Research scholars of CSIR-CFTRI, Mysuru in association with AFTST(1) Mysuru.
28	2019	Participated in one day workshop on “Reserch Methods and Research Reporting – Tools and Techniques” Organized by University Library, University of Mysuru.
29	2019	Participated in national Workshop on Quality Research Methodology & Writing, Publishing skills for Researchers” organized by the Department of Studies in Library and information Science, University of Mysore, Musru on 26-27 July 2019.
30	2019	Presented paper entitled “Screening for tyrosine inhibition properties of few selected plant (weeds) extracts” in 12 th National Womn’s Science Congress organized by Swadeshi Vignana Andolana-Karnataka. Rashtiya Mahila Vignana Sammelana on 7-9 th November 2019
31	2019	Participated in Indo-UK Genomic Education forum on the theme”The impact of Human Genomics on Current Medical Practice and Health care” organized by JSS medical College Department of Biochmesitry and JSS Hospital< Mysuru. Karnataka. On 31 st October 2019.
32	2020	Participated in Four- Day Frontier lecture series on Biological Sciences on 26 th Feb 2020. Organized by JSS College of Arts, Commerce & Science, Ooty Road, Mysuru.
33	2020	Participated in UGC Sponsored one-Day state level seminar on Prospects and perspectives in Applied Zoology on 4 th March 2020 organized by JSS college of Arts, commerce and science Ooty road, Mysuru-25d
34	2020	Participated in One day National Webinar on “New Education policy-2020” on 8 th September 2020 organized by Department of economics studies and Plannning, central University of Karnataka in collaboration with KLE society’s S.K Arts College and HSK Institute, Hubballi, Karnataka
35	2020	Participated in Two days Workshop on Adoptation of Advanced technology for sustainable sericulture” on 25 th & 26 th Feb. 2020. Organized by Department of Sericulture science, University of Mysore.

36	2020	Participated in National Level Webinar on “ Pandemic of Viral Infection ”, organized by the department of Life Science, Pooja Bhagavat Memorial Mahajana Education Centre, P.G. Wing of SBRR Mahajana First Grade college, Mysore
37	2020	Participated in 19 th Annual 5 th international Science Fiction online conference 2020 jointly organized by Bangalore university and Indian Association for Science Fiction Studies “E-Participation Certificate). Held from 7 th -9 th December 2020
37	2021	Participated in Lecture Series on “Contemporary Zoology” on 30 th January 2021 Organized by the Department of studies in Zoology, Manasagangotri, university of Mysore, Mysuru.
38	2021	
	Work shops/ Orientation Pogrammes attended/Organized	
1	2005	The third SERC School in Chronobiology 29 th December 2004 to 7 th January 2005. Department of Zoology, Gulbarga University, Gulbarga.
2	2006	Department of Science and Technology sponsored Workshop on Phylogenetic Biology held on 10 th - 22 July, 2006 in the Department of Studies in Zoology, Manasagangotri, Mysore-6
3	2007	SERC School in chronobiologyII: Clocks, Rhythms and Behaviour held at the DST-IRHPA Centre, for Excellence in Biological Rhythm Research, Department of Zoology University of Lucknow, from 12 th -25 th October 2008.
4	2008	Summer School on “Animal Behaviour and Chronobiology” during 29 th August -11 th September 2009 held at UGC-Networking Resource centre in Biological Sciences, Madurai Kamaraj University, Madurai 625 021.
5	2007	UGC Sponsored Orientation Programme held from 3 rd May to 30 th May 2007. Academic Staff College, University of Mysore, Mysore.
6	2010	UGC-sponsored Refresher course held from 3 rd – 23 rd September 2010 at UGC-Academic Staff College, University of Mysore Mysore.
7	2009	Organizing Member of National conference on Recent Trends in Animal Physiology held on 29 th -20 th October, 2009 at Department of Studies in Zoology, University of Mysore, Mysore
8	2009	Organizing Member 5 th Drosophila Meeting held at Department of Studies in Zoology, on 28 th to 29 th .May 2009

9	2010	Organizing member of sixth Drosophila Meeting held on 19 th Noveber to 20 th Movember 20110 in the Department of Studies in Zoology Manasagangotri, Mysore-6.
10	2015	Participated in International training program on Leadership and career development for women scientists and technologists . Held is IISER, PUNE on 28 th August to 1 st September (6 days) 2015. In association with DST and Coach
11	2016 4/10/2016	Participated in Focus Group Discussion organized by “ Department of Statistics Manipal University, Manipal” at University of Mysuru, Mnasagangotri for “Women Employees of Higher Education in karnataka: Struggles and Success” sponsored by Indian Council of Social Science Research (ICSSR)
12	2016	Participated in International Conference on Science and Technology: Furture Challenges and Solutions (SCFCS-2016)held during 8-9 th August 2016 at Vignana Bhavan, University of Mysore, Mysuru
13	2016	Worked as Rapporteur and Chairperson in the Session of emerging Technologies XL Indian Social Science Congress held from December 19-23 2016 at University of Mysuru, Mysuru, Karnataka
14	2017	Attended and Presented paper in the IndoUS workshop held at Department of Zoology, University of Delhi, New Delhi held on 21-23 rd Feb. 2017
15	2017	Invited talk delivered in International conference on Advances in Sceince and Engineering held at Regent’s international College, Bangkok, Thailand
16	2017	Delivered invited talk in the National symposium on cytogenetic and genomics held on 27 th October 2017 at Govt. sci. college, Hassan, Karnatak, India
17	2018 January	Participated in the workshop on “Food Fishes of Karnataka” organized by the Bharathi College on 31 st January 2018.
18	February 2018	Delivered invited talk / Resource person in the National Drosophila Workshop conducted by the department of studies in Zoology., Manasagangotri, Mysuru-6
19	2018	Attended the Faculty of Science Meeting held in March 2018, Rani Bahadur auditorium, Manasagangotri, Mysuru-6, Member faculty of science from 2017-2018.
20	2018	Participated in the seminar on Importance of Academic leadership in the Governance of Higher education institutions. Held Auditorium. Vignana Bhavan, Manasagangotri, Mysuru on.(27 th April 2018)
21	2018	Participated in the Mid Academy of Science meeting held in Infosys, Mysuru, Indian Academy Sciences29th 30 th June 2018
22	2018	Participated in the UGC sponsored Refresher Course in the subject Basic Sciences from 8 th March 2018 to 28-3-2018 held at Human Resource Development Centre
23	2018	Worked as Exam supervisor for PG-CET exams held in the University of Mysore from 18 th June to 21 st June 2018
24	2018	Worked as Exam supervisor for PG-CET exams held in the University of Mysore from 18 th June to 21 st June 2019

25	2019	Worked as Exam supervisor for PG-CET exams held in the University of Mysore from January 2021
26	2020	Worked as Exam supervisor for PG-CET exams held in the University of Mysore from January 2021
27	2021	Worked as Exam supervisor for PG-CET exams held in the University of Mysore from January 2021

Visits Abroad

1. Visited, Bangkok, Pattaya (Thailand) to present an invited talk on Biological rhythms and human health” in Internation Conference on Advances in science and Engineering, Regent College Bangkok, Thailand held on 19th to 23rd January 2017.

Sl No.	Year	Resource Person / Organizing member/ in the workshops and conference	Place of the work accepted
1	1993	“Orientation Course on Cytogenetics of <i>Drosophila</i> for teachers of Graduate College/Postgraduate institutions held on 24 th - 29 May 1993 at Drosophila Stock Centre DOS in Zoology, Manasagangotri Mysore-6	DOS in Zoology
2	1994	“Orientation Course on a Cytogenetics of <i>Drosophila</i> ” for teachers of Graduate college/Postgraduate institutions of different Universities of Karnataka , held on 21 st -26 th march 1994 at Drosophila Stock Centre, DOS in Zoology, Manasagangotri, Mysore-6.	DOS in Zoology
3	1997	Orientation Course on Cytogenetics of <i>Drosophila</i> ” for teachers of Graduate and Postgraduate institutions of different Universities of Karnataka , held on 1-06 th March 1997 at Drosophila Stock Centre DOS in Zoology, Manasagangotri, Mysore-6.	DOS in Zoology
4	2001	Refresher course on “Genetics and Evolution” 10 th -22 September 2001. Sponsored by Indian Academy of Sciences, Bangalore.	Indian Academy of Sciences, Bangalore
5	2011	Organizing Member of International Symposium on Current Trends in Endocrine and Reproductive Health and 29 th Annual Meeting of the society for	Department of Studiens in Zoology,

		Reproductive biology and comparative endocrinology. Held at department of studies in Zoology, Manasagangotri Mysore-6 on 10 th -12 February 2011	University of Mysore
6	2014	Invited talk delivered in Drosophila Meeting held in Banaras Hindu University, Varanasi from March 12-13, 2014.	Banaras Hindu University, Varanasi
7	2014	Organizing member of 10 th Kannada Vignana Sammelana Karnataka Science Congress held in University of Mysore from 15 th to 17 th September 2014	Swadeshi Andolana, Karnataka
8	2014	Organizing member of National Symposium on Innovations in Science and Technology for inclusive development organized on 3 rd and 4 th January 2014 at the department of Studiens in Zoology, University of Mysore. Sponsored by Indian science congress Association, Bangalore Chapter and University of Mysore.	Department of Studiens in Zoology, University of Mysore.
	2014	Served as Reporteur I National symposium on innovations in Science and Technology for inclusive development, organized on 3 rd and 4 th January 2014.	DOS in Zoology, University of Mysore, Mysore
	2014	Served as a Chairman of the session in 10 th Kannada Vignana Sammelana held on 15-17 th September 2014. in the university of Mysore, Mysore	Organized by University of Mysore
9	2016	Organizing member (Reception subcommittee) for Indian Science Congress, held in the University of Mysore, Mysuru.	
10	2016	Organizing member and Joint secretary for the 26 th National Symposium on Chronobiology, held in the Department of Studies in Zoology, Manasagangotri, Mysore-6 from 2 nd and 3 rd June 2016	DOS in Zoology
	2016	Chairing the sessions in the chronobiology conference held at Department of Studies in Zoology, Manasagangotri, Mysore on 2-3 rd June 2016	DOS in Zoology
11	February 2018	Organizing secretary for the Drosophila Workshop conducted in the Department of studies in Zoology, from 26- 28 th February 2017	Department of studies in Zoology
12	2016	Worked as Rapporteur and Chairperson in the Session of emerging Technologies XL Indian Social	

		Science Congress held from December 19-23 2016 at University of Mysuru, Mysuru, Karnataka	
13	2017	Organizing member for the Seminar on “ Nobel Prize in Medicine 2017: Drosophila Yet again ” on 11 th October 2017 at B.M. Bahadur Institute of Managment Science, MGM.	DOS in Zoology
14			

Date	Invited talk delivered in UGC-Academic Staff College, University of Mysore, Mysuru Topics
31/1/2020	Impact of Circadian rhythm on human health (Refresher course)
26/12/2020	Lifestyle and human health (OP)
27/2/2021	Effect of Life style on human health (OP)
23/2/2021	Seminar judge to UGC-HRDC OP programme

Sl NO.	Year	Student projects Guided Dr. V. Shakunthala	Students
1	2014-15	The nutritional effects on the gut microflora and their impact on viability and fitness in <i>Drosophila melanogaster</i>	Nethravathi R (GN 113011) Supriya PC (GN113018)
2	2015-16	“Effect of Amitriptyline hydrochloride on mating behavior of <i>Drosophila melanogaster</i> ”	Latha Rani. D (GN113005) Sathisha.S
	2015-16	Antimicrobial Activity of <i>Mucuna pruriens</i> seed on Human pathogenesis	Suhasini M.P (GN113017)
3	2016-17	Effect of Lead Acetate and Zinc Chloride on <i>Drosophila melanogaster</i>	Salini H.H. (Zo115033) Rekha (Zo11 5026) Paramesha B. P(Z0115020) Sangeetha M.D.(Zo115032)
5	2017-18	“Effect of Artificial Sweetner (aspartame) on <i>Drosophila melanogaster</i> ”	Anjana S (Zo116005) Monisha D (Z0116025) Sunitha MB (Z0116043)
6	2018-19	Study on diversity of Ants in Manasagangotri	Soubhagya.H.R

		Campus	(ZO117141)
		Functional Morphology-structural analysis of mandibles in twenty species of Grasshoppers	Meghana A ZO117127
		Study on Morphometry and Morphometric geometry of the wings in Grosshopper at Manasagnagotri Campus	Megha Urs T. S (ZO117126)
	2018-19	Alpha and Beta esterase profiles of few species of <i>Drosophila melanogaster</i>	Suchithra C (ZO117140) Shilpa A (ZO117139)
	2018-19	Determination of Students, Research Scholars and professors within Manasagangotri campus.	Anjali Jo James (ZO117106) Anitha G (ZO117105)
7	2019-20	Biodiversity and Morphological studies of <i>Drosophila</i> species in Manasagangotri campus, Mysuru, Karnataka	Ms. Abhishek Mery Ms. Akshatha A Ms. Aparna S. Hiremath Ms. Bhagya lakshmi P. N. Ms. Gunjan Ms. Pritiwi G.D Ms. Sushma J
8	2020-21	Amilorating effect of the <i>Bacopa moneri</i> to heavy metal treated to <i>Drosophila melanogaster</i>	Chiathra Kumari BL Neha Mutalik Pooja C Shobha G Spoorthy S

Others:

1. Participated in the “Discussion Meeting on Behavioural Ecology”, held on 8th-10th July 1999. Sponsored by Jawarlal Nehru Centre for Advance Scietific Research, Bangalore, Drosophila Stock Centre, Department of Zoology, Manasagangotri, Mysore.
2. Participated in the seminar on “Health and Nutrition Awareness” held at Department of Studies in Food Science and Nutrition, Manasagangotri, Mysore on 27th March 2006.
3. Attended certificate course in **Statistical Application conducted by** Centre for Information Science and Technology (CIST), Senate Bhavan, Manasagangotri, Mysore-6.

4. Participated in Darwin's 200th Birth Anniversary Celebrations on 25th-26th May 2009 held at Department of Studies in Zoology Manasagangotri, Mysore-6.
5. Participated in Special Lecture Series held at Department of Zoology on 22nd to 24th October 2009 , sponsored by Karnataka Science and Technology Academy.
6. Participated in 2nd National Women's Science Congress during 7th-9th November 2009, AIISH, Mysore.
7. Participated in International Conference at 3rd Bangalore Nano "Frontiers of Nanotechnology: Impact on India" Held at Bangalore, on 8th and 9th December 2010.
8. Participated in One day symposium on Microbial Energy held on 15th September 2010 at Department of Studies in Microbiology and Sri. M. Visvesvaraya Chair University if Mysore, Manasagangotri, Mysore.
9. Attended One day work shop on "Intellectual Property Rights Jointly organized by KSCST, Bangalore and Centre for Information Science and Technology (CIST University of Mysore held on 25th March 2011.
10. Participated in 2nd International Conference organized by the Academy of Clinial Embryologists held Le meridien, Bangalore form 10th 11 August **2013**.
11. Participated in the workshop on Literature Review organized by Mysore University library, University of Mysore, Mysore on 19th December **2013**.
12. Participated in National seminar on impact of urbanization on biota and the role of governmental and non-governmental organizations in their conservation." Held in Governement Science College Nrupathunga road, Bangaluru-1.
13. Participated in the workshop of plagiarism held in the Library University of Mysore.

Popular science articles in Kannada:

- 1) Ranganath, H. A. and **V. Shakunthala**, 2006. '*Drosophila*' Kannada Vishaya Viswakosha: Praani vignana University of Mysore, Page.708-9
- 2) **Shakunthala,V** 2006. 'Hannu nonagalu' (Common fruit flies) Kannada vishaya viswakosha: Pranivgnana University of Mysore, Page.1139
- 3) **Shakunthala,V** 2006. 'Gelapagus dweepagalu' (Galapagus islands) Kannada vishaya viswakosha: Pranivgnana University of Mysore, Page.535-536
- 4) **Shakunthala V** 2007. "Vikruthigalu" Suvarna Karnataka Male, Giva Shasthrakke thalivignanada koduge. Prasaraanga, Bangalore University. Bangalore.pp.105-119.
- 5). "Endoplasmic reticulum" Sasya shastrha vishwakoshagalu, UOM 2018
- 6) "Golgi complex" Sasya shastrha Vishwakoshagalu, UOM 2018